Exhibit B

Michigan Department of Transportation 5100B (07/07)

CHECKLIST TO DESIGNATE AREAS OF EVALUATION FOR REQUESTS FOR PROPOSAL (RFP)

MDOT PROJECT MANAGER Michele Mueller			JOB NUMBER (JN) 104007 and 104008	CONTROL SECTION (CS) 63900,82900
DESCRIPTION IF NO JN	V/CS		104007 and 104000	00300,02300
Signal Optimization				
MDOT PROJECT MANA	AGER: Check all items to	be included in RFP.	CONSULTANT: Provide only check	ked items below in proposal.
WHITE = REQUIRED GRAY SHADING = OPTIONAL				
Check the	e appropriate Tier in the b	ox below		
TIER I (\$25,000-\$99,999)	TIER II (\$100,000- \$250,000)	TIER III (>\$250,000)		
	×		Understanding of Service	
	X		Innovations	
	X		Safety Program	
N/A	X		Organization Chart	
	×		Qualifications of Team	
	X		Past Performance	
Not required as part of official RFP	Not required as part of official RFP		Quality Assurance/Quality Co	ontrol
	×		Location: The percentage of work performed in Michigan will be used for all selections unless the project is for on-site inspection or survey activities, then location should be score using the distance from the consultant office to the on-site inspection or survey activity.	
N/A	N/A		Presentation	
N/A	N/A		Technical Proposal (if Preser	ntation is required)
3 pages (MDOT forms not counted) (No Resumes)	7 pages (MDOT forms not counted)	19 pages (MDOT forms not counted)	Total maximum pages for RF personnel resumes	P not including key

REQUEST FOR PROPOSAL

The Michigan Department of Transportation (MDOT) is seeking professional services for the project contained in the attached scope of services.

If your firm is interested in providing services, please indicate your interest by submitting a Proposal, Proposal/Bid Sheet or Bid Sheet as indicated below. The documents must be submitted in accordance with the latest "Consultant/Vendor Selection Guidelines for Service Contracts" and "Guideline for Completing a Low Bid Sheet(s)", if a low bid is involved as part of the selection process. Referenced Guidelines are available on MDOT's website under Doing Business > Vendor/Consultant Services > Vendor/Consultant > Vendor/Consultant > Vendor/Consultant > Vendor/C

RFP	SPECIFIC INF	ORMATION				
✓ BU	IREAU OF HIGHW	/AYS	BUREAU OF TRANS	SPORTATION PLANNING **	OTHER	
THE	SERVICE WAS PO	STED ON THE ANTI	CIPATED QUARTERLY REQ	JESTS FOR PROPOSALS		
	√ NO	YES	DATED	THROUGH		
t	Scope of Servicions.		equalification Classifica-	sure that current financial in computations, and financi is on file with MDOT's Of tion must be on file for the the contract will not be de	ervices - If selected, the vendor must make information, including labor rates, overhead ial statements, if overhead is not audited, fice of Commission Audits. This informa- e prime vendor and all sub vendors so that layed.	
V	Qualificatio	ns Based Selectio	n – Use Consultant/Vendo	r Selection Guidelines		
most matic	qualified to perfo on, that firm will b	orm the services bas be asked to prepare	sed on the proposals. The a priced proposal. Negot	selected vendor will be con iations will be conducted wi		
but so (see The vest so	eparate from, the address list, pay vendor's name a coring proposal.	e proposal. Submit age 2). The priced pure submit and return address More to the priced pri	directly to the Contract Ac proposal must be submitte MUST be on the front of the	ministrator/Selection Speci d in a sealed envelope, clea e envelope. The priced pro to the unselected vendor(s)	nust be submitted at the same time as, falist, Bureau of Transportation Planning arly marked "PRICE PROPOSAL." sposal will only be opened for the high-	
For a cost plus fixed fee contract, the selected vendor must have a cost accounting system to support a cost plus fixed fee contract. This type of system has a job-order cost accounting system for the recording and accumulation of costs incurred under its contracts. Each project is assigned a job number so that costs may be segregated and accumulated in the vendor's job-order accounting system.						
	Qualificatio information.	ns Review / Low B	id - Use Consultant/Vend	or Selection Guidelines. Se	ee Bid Sheet Instructions for additional	
on th meet	e MDOT website	e. The notification w	vill be posted at least two l	ousiness days prior to the b	itted and post the date of the bid opening oid opening. Only bids from vendors that The selected vendor may be contacted	
				s. See Bid Sheet Instruction the determining factor of the	s below for additional information. The he selection.	
	Low Bid (n instructions.	•	view required - no propo	osal required.) See Bid S	Sheet Instructions below for additional	

BID SHEET INSTRUCTIONS

A bid sheet(s) must be submitted in accordance with the "Guideline for Completing a Low Bid Sheet(s)" (available on MDOT's website). The Bid Sheet(s) is located at the end of the Scope of Services. Submit bid sheet(s) separate from the proposal, to the address indicated below. The bid sheet(s) must be submitted in a sealed manila envelope, clearly marked "SEALED BID." The vendor's name and return address MUST be on the front of the envelope. Failure to comply with this procedure may result in your bid being opened erroneously by the mail room and the bid being rejected from consideration.

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PROPOSAL SUBMITTAL INFORMATION				
REQUIRED NUMBER OF COPIES FOR PROJECT MANAGER 4		PROPOSAL/BID DUE DATE 11/12/08		
PROPOSAL AND BID SHEET MAILING ADDRESSES	6			
Mail the multiple proposal bundle to the MDOT Project Manager or C	ther indicated I	pelow.		
✓ MDOT Project Manager		MDOT Other		
Michele Mueller				
18101 W Nine Mile Road				
Southfield, MI 48075				
Mail one additional stapled copy of the proposal to the Lansing Office Lansing Regular Mail	e indicated belo	w. Lansing Ov	ernight Mail	
Secretary, Contract Services Div - B470		Secretary, Contract Services Div - B470		
Michigan Department of Transportation		Michigan Department of Transportation		
PO Box 30050		425 W. Ottawa		
Lansing, MI 48909		Lansing, MI 48933		
Contract Administrator/Selection Specialist		Contract Administrator/Selection Specialist		
Bureau of Transportation Planning B470		Bureau of Transportation Planning B470 Michigan Department of Transportation		
Michigan Department of Transportation				
PO Box 30050		425 W. Ottawa		
Lansing, MI 48909		Lansing, MI 48933		

GENERAL INFORMATION

Any questions relative to the scope of services must be submitted by e-mail to the MDOT Project Manager. Questions must be received by the Project Manager at least four (4) working days prior to the due date and time specified above. All questions and answers will be placed on the MDOT website as soon as possible after receipt of the questions, and at least three (3) days prior to the RFP due date deadline. The names of vendors submitting questions will not be disclosed.

MDOT is an equal opportunity employer and MDOT DBE firms are encouraged to apply. The participating DBE firm, as currently certified by MDOT's Office of Equal Opportunity, shall be listed in the Proposal

MDOT FORMS REQUIRED AS PART OF PROPOSAL SUBMISSION

5100D - Request for Proposal Cover Sheet

5100G - Certification of Availability of Key Personnel

5100I – Conflict of Interest Statement

(These forms are not included in the proposal maximum page count.)

Michigan Department of Transportation

SCOPE OF SERVICE FOR TRAFFIC & SAFETY SERVICES

Traffic Signal Optimization

CONTROL SECTION(S): 63900, 82900

JOB NUMBER(S): 104007C, 104008C

PROJECT LOCATION:

70 Signalized Intersections in Wayne County and 70 Signalized Intersections in Oakland County Metro Region:

The exact locations and corridors have not been determined at this time.

PROJECT DESCRIPTION:

Traffic Signal Optimization on various corridors in Oakland and Wayne Counties, Metro Region. This project will provide MDOT with updated corridor signal progression plans with optimized traffic signal operations along each corridor. The consultant team will provide this information on MDOT timing permits forms. New timings will be implemented by MDOT. Follow-up analysis of the network and recommending adjustments to the system after implementation is required, as is a before and after study of the effectiveness. Services also include a safety analysis for each intersection. All work will follow the Michigan Signal Optimization Guidelines, the Michigan Timing Plan Preparation Guidelines timing guidelines and other documents provided by MDOT.

Up to two consultants will be selected as part of this project. MDOT is requesting qualifications and a proposal for providing engineering services for signal optimization on various state trunk lines in Metro Region.

ANTICIPATED SERVICE START DATE: January 1, 2009

ANTICIPATED SERVICE COMPLETION DATE: December 31, 2010

PRIMARY PREQUALIFICATION CLASSIFICATION(S):

Complex Traffic Signal Operations

SECONDARY PREQUALIFICATION CLASSIFICATION(S):

N/A

DBE REQUIREMENT: N/A

MDOT PROJECT ENGINEER MANAGER:

Michele Mueller Michigan Department of Transportation 18101 W Nine Mile Road Southfield, MI 48075

Email: muellerm2@michigan.gov

Tel: (248) 483-5133 Fax: (248) 569-3103

CONSULTANT RESPONSIBILITIES:

Schedule a pre-project initiation meeting to discuss the overall project schedule including data collection and to coordinate project activities and to determine signal timing objectives and issues.

Conduct two status meetings at MDOT facilities. Provide written monthly project status reports to MDOT detailing progress towards completion of the project's goals and objectives. Also provide the meeting minutes.

Obtain and review the current signal timing plans. It may be necessary for the consultant to obtain and review the signal timing plans of the existing signals immediately upstream/adjacent to the project signals to evaluate continued progression along a given corridor.

Field collection of the 2-hour A.M. peak period, 4-hour P.M. peak period, and 2-hour mid-day off-peak turning movement volumes including pedestrian counts. Unless otherwise approved, all counts will be taken on Tuesday, Wednesday, or Thursday. No counts will be taken while schools are in summer vacation or during major holiday periods. Exact periods will be determined during the project and approved by the MDOT project manager.

24 hour machine counts (Supplied by MDOT) for each intersection approach shall be used to determine schedules for peak periods, nighttime periods and flash schedules.

All intersections will require development of timings plans for the A.M. peak, P.M. peak, noon-peak and nighttime periods.

In addition to the normal timing, a [special event, emergency, holiday weekend, summer, etc...] timing plan may also be necessary depending on the specific corridor.

Field collection of lane geometry, posted speed limits, intersection widths, travel distance between signalized locations, grades, lane widths, no turn on red signs, pedestrian facilities (heads and pushbuttons) will be required. A review of the ambient light at each location shall also be noted.

Take a digital photograph of each intersection approach.

Input 24 hour and turning counts into an Excel spreadsheet in MDOT's standard format, for storage and future use.

Optimize traffic signal operations to improve traffic flow and reduce delay at each intersection using *Synchro (Version 7)* software.

Simulate the results using SimTraffic (Version 7) software.

Calculate vehicle and pedestrian clearance intervals at each location based on traffic signal timing standards provided by MDOT's Change Interval Guidelines.

Compile a summary of system Measures of Effectiveness and a cost/benefit analysis for the project area.

Identify any potential improvements in the existing signal equipment, lane assignment or roadway geometry that will provide better operational and safety characteristics, if corrected.

Perform a Warrant Analysis on all signals. All applicable warrants shall be reviewed. Graphs shall be created and supplied to MDOT for locations that do not meet warrants.

Obtain most recent 3-year traffic crash summaries from MDOT for a 250 ft radius around each signalized location. Evaluate the crash data to determine if there are any crash patterns. Report on crash patterns to the MDOT project manager for future analysis by MDOT. Operational improvements deemed necessary by the crash analysis shall be incorporated into the timing plans developed by the consultant. Crash diagram should be created for the top 10% high crash locations.

Conduct review of nearby signals on cross streets that are within 500 feet of the corridor being retimed and provide suggested timing plans. These signals should also be included in the Synchro models.

Provide the applicable local agency the MDOT timing permits for the corridor being retimed so they can utilize them to adjust their own timing permits for those effected signals. The local agency should be given enough time to allow for the installation to be implemented at the same time as MDOT.

Develop and submit for review computer simulations and "red-lined" signal-timing plans for each location in accordance with MDOT's and each road agency's format. Revise these timing plans in accordance with MDOT, the road agency's and local communities' comments.

Conduct a follow-up field critique of the new timing plans and recommend adjustments as required. Where required, submit revised signal timing plans.

Perform before and after analysis using actual travel time runs and prepare a brief summary outlining the benefits derived from the project. The following bullets will give an overview of the details that will be involved:

Data Collection:

The consultant will be required to collect and evaluate detailed point-to-point travel time data using PC Travel or similar approved data collection and processing software. Collection of travel time data using PC Travel requires use of a laptop computer, with data collected from one of the following two sources:

- Using a GPS receiver coupled with the GPS Travel Time software package, or;
- Using a vehicle-mounted transmission sensor coupled with a TDC-8 traffic count board.
- For locations where there are 3 or fewer signals along a corridor utilize the equivalent output from SimTraffic to generate existing and optimized measures of effectiveness.

Utilize the Michigan Signal Optimization Guidelines and the Michigan Timing Plan Preparation Guidelines throughout the contract, as a tool. Any unusual locations shall be discussed with the Project Manager for direction on how to proceed.

Utilize the MDOT supplied spreadsheet model for conducting benefit/cost evaluations on signal optimization projects. This is in electronic format.

PROJECT DELIVERABLES:

Provide MDOT electronic copies of the *Synchro 7* existing and optimized simulation files so that they can be updated and used for future analysis.

Provide MDOT an electronic copy of all project documentation.

Provide a written final report (3 paper copies of the report, 5 electronic copies including the report and appendices) that includes all identified roadway geometry, lane assignments, speed limits, equipment/roadway deficiencies and recommended improvements, turning movement count data, 24 hour approach counts, flash schedule analysis, clearance interval analysis, collision diagrams, crash analysis & recommendations, summary of measures of effectiveness, benefit-cost analysis and summary of each local meeting.

MDOT RESPONSIBILITIES:

Host a project initiation meeting to discuss the overall project schedule including data collection and to coordinate project activities and to determine signal timing objectives and issues.

Furnish to the Consultant the following:

The most recent 3-year traffic crash summaries from MDOT in a 250 ft radius around each signalized location.

Existing timing plans and signal drawings of each intersection.

Conduct final reviews and provide comments on proposed timing permits, computer models and reports.

CONSULTANT PAYMENT – Actual Cost Plus Fixed Fee:

Compensation for this project shall be on an **actual cost plus fixed fee** basis. This basis of payment typically includes an estimate of labor hours by classification or employee, hourly labor rates, applied overhead, other direct costs, subconsultant costs, and applied fixed fee.

All billings for services must be directed to the Department and follow the current guidelines. The latest copy of the "Professional Engineering Service Reimbursement Guidelines for Bureau of Highways" is available on MDOT's website. This document contains instructions and forms that must be followed and used for billing. Payment may be delayed or decreased if the instructions are not followed.

Payment to the Consultant for services rendered shall not exceed the maximum amount unless an increase is approved in accordance with the contract with the Consultant. Typically, billings must be submitted within 60 days after the completion of services for the current billing. The final billing must be received within 60 days of the completion of services. Refer to your contract for your specific contract terms.

Direct expenses, if applicable, will not be paid in excess of that allowed by the Department for its own employees in accordance with the State of Michigan's Standardized Travel Regulations. Supporting documentation must be submitted with the billing for all eligible expenses on the project in accordance with the Reimbursement Guidelines. The only hours that will be considered allowable charges for this contract are those that are directly attributable to the activities of this project.

The use of overtime hours is not acceptable unless prior <u>written</u> approval is granted by the MDOT Region Engineer/Bureau Director and the MDOT Project Manager. Reimbursement for overtime hours that are allowed will be limited to time spent <u>on this project</u> in excess of forty hours per person per week. Any variations to this rule should be included in the priced proposal submitted by the Consultant and must have prior written approval by the MDOT Region Engineer/Bureau Director and the MDOT Project Manager.

The fixed fee for profit allowed for this project is 11.0% of the cost of direct labor and overhead.